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TITLE: TASK SCHEDULING SYSTEM

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INVENTOR-INFORMATION:
NAME
SAKON, SHOICHI

ASSIGNEE-INFORMATION:
NAME   COUNTRY
NEC CORP   N/A

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ABSTRACT:

    PURPOSE: To set the **execution order** of the tasks of a multi-task program
constant by deciding the task to be executed next in the order of task **numbers**
for respective tasks which belong to semaphores and which are in a waiting
state when all the tasks are detected to be in the waiting state.

    CONSTITUTION: A task generation means 2 generates the tasks based on the
task generation request of the multi-task program 1 and starts a task order
number allocation means 3. A transfer control means 5 compares the task **number**
which follows a lock semaphore as against the command of a lock means 4 and
which is to be transferred next with the task **number** which issues a lock
request, and sets the task to be in a lock state when they coincide. When they

do not coincide, a waiting state transfer means 6 sets the task to be in the
waiting state. When a whole tasks waiting state detection means 7 detects that
all the tasks are transferred to the waiting state, the task to be executed
next is decided in the order of the task **numbers** for respective tasks in the
waiting state and execution is started. Thus, the tasks are always in the same
execution order.

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